3.5" OEM Ultra SCSI Three Channel CMD Viper-II™ RAID Controller

CMD's ORD-5330 Ultra SCSI-to-Ultra SCSI RAID controller is the OEM's best choice for building cost-effective disk array subsystems for use in PCs, desktop workstations, and embedded storage subsystems. The ORD-5330 provides the OEM data storage market a high performance, yet compact RAID 0, 1, 0+1, 4, and 5 controller at an extremely attractive price point. The ORD-5330 incorporates the same advanced "Viper-II" architecture as CMD's high-end, high-performance CRD-5500 RAID controller in a single, 3.5" form-factor board. The ORD-5330 is designed for single-host applications requiring two to 30 SCSI disk drives.

Key Benefits

The ORD-5330 was designed specifically to provide a solution for small to medium capacity, and OEM data storage applications requiring a RAID subsystem with high performance and data integrity. Unlike bus-based RAID controllers or RAID software, the ORD-5330 requires no custom drivers or changes to the host operating system and does not use any host bus slots. The ORD-5330 is fully transparent and provides dramatically improved performance and reliability compared to internal solutions without affecting host application performance or reliability.

Advanced Features

- 40 MHz, 32-bit LR33310 RISC CPU (MIPS R3000 core)
- Proprietary CMD RAID ASICs for advanced features and highest performance
- Up to 128 MB of data cache using one industry-standard, 72-pin SIMM module
- RAID Levels 0, 1, 0+1, 4, and 5
- Two Ultra SCSI/Wide/Single-Ended disk channels
- One Ultra SCSI Single-Ended, Differential (HVD) or Low Voltage Differential (LVD) host channel
- LCD & serial port interface provided
- 3.5" form-factor (1" height) for easy integration into OEM enclosures

GENERAL

System Architecture	40 Mhz LR33310 32-bit RISC CPU — Internal 80 MB/sec, 36-bit DMA data path and XOR using CMD's custom ASIC RAID chipset
Host Bus Interface	One 40 MB/sec Ultra SCSI Single-Ended or Ultra SCSI Differential (HVD), or Ultra SCSI Low Voltage Differential (LVD)
Disk Bus Interface	Two 40 MB/sec Ultra SCSI Single-Ended — Up to 30 SCSI devices (up to 32 LUNs)
Command Queuing	32 commands with optimized seek (host and disk SCSI channels)
Cache	Up to 128 MB using one, industry-standard, 72-pin, 60 ns SIMM module
Operating Systems Supported	Most operating systems supporting standard SCSI with a block size of 512 bytes and SCSI LUNs

ENVIRONMENTAL

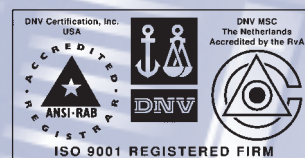|	
Temperature	5°C to 50°C operating, -40°C to +60°C non-operating
Relative Humidity	10% to 85% non-condensing (operating), 5% to 90% non-condensing (non-operating)

PHYSICAL

Controller Size	6.25" deep, 3.875" wide, 1.0" high; Robinson-Nugent mating connector with combined SCSI, RS-232 serial port, and power
Power Required	5 VDC @ 3 amps peak — 12 VDC @ 1 amp peak
Warranty	Three years return to factory (for original purchaser)

Specifications subject to change without notice.

Ordering Information

ORD-5330-101	ORD-5330 with one Ultra SCSI Single-Ended host and two Ultra SCSI Single-Ended disk channels
ORD-5330-102	ORD-5330 with one Ultra SCSI Differential (HVD) host and two Ultra SCSI Single-Ended disk channels
ORD-5330-104	ORD-5330 with one Ultra SCSI Low Voltage Differential (LVD) host and two Ultra SCSI Single-Ended disk channels

Note: SIMM cache modules are not available from CMD Technology, Inc. Requirements and specifications for SIMMs used in the CMD products are available upon request, or see CMD's WEB site: www.cmd.com.

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